Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1(Previously presented). An IFN- γ production inducing agent which consists essentially of an effective ingredient capable of inducing IFN- γ production by immunocompetent cells, said effective ingredient being an interferon-gamma (IFN- γ) production inducing protein, also known as IGIF and IL-18, having the following physicochemical properties:

- (1) Molecular weight
 19,000±5,000 daltons on gel filtration and sodium
 dodecylsulfate polyacrylamide gel electrophoresis
 (SDS-PAGE);
- (2) Isoelectric point (pI)
 4.8 ± 1.0 on chromatofocusing; and
- (3) Biological activity $\label{eq:continuous} \text{Inducing the interferon-} \gamma \text{ production by } \\ \text{immunocompetent cells.}$

 $2 \, (Previously \ presented)$. A pharmaceutical composition comprising a pharmaceutically-acceptable carrier and an effective ingredient capable of inducing IFN- γ production by immunocompetent cells, said effective ingredient being an

interferon-gamma (IFN- γ) production inducing protein, also known as IGIF and IL-18, having the following physicochemical properties:

- (2) Isoelectric point (pI)
 4.8 ± 1.0 on chromatofocusing; and
- (3) Biological activity $\text{Inducing the interferon-} \gamma \text{ production by } \\ \text{immunocompetent cells.}$

 $3 \, (\text{Currently amended})$. A purified interferon-gamma $(\text{IFN-}\gamma)$ production inducing protein, which is a variant of an interferon-gamma production inducing protein, also known as IGIF and IL-18, and which has the following physicochemical properties:

- (1) Molecular weight
 19,000±5,000 daltons on gel filtration and sodium
 dodecylsulfate polyacrylamide gel electrophoresis
 (SDS-PAGE);
- (2) Isoelectric point (pI)
 4.8 ± 1.0 on chromatofocusing;

- (3) Biological activity
 Inducing the interferon-γ production by
 immunocompetent cells; and
- (4) Partial amino acid sequence

 Possessing a part or the whole of the amino acid

 sequence of SEQ ID NO:2, wherein the Xaa in SEQ ID

 NO:2 is Met or Thr,

wherein said variant is a sequence variant of SEQ ID NO:2 which corresponds to [[an]] the amino acid sequence of SEQ ID NO:2, which is obtainable by replacing at least one amino acid residue in SEQ ID NO:2 with a different amino acid residue or by deleting or adding at least one amino acid residue in SEQ ID NO:2 the N-terminal region of or to the N-terminus of SEQ ID NO:2 while not substantially altering the above physicochemical property biological activity (3).

4 (Previously presented). The purified protein according to claim 3, wherein said variant has at least one amino acid residue in SEQ ID NO:2 replaced with a different amino acid residue.

5(Previously presented). The purified protein according to claim 3, wherein said variant has at least one amino acid residue deleted or added to the N-terminus of SEQ ID NO:2.

6(Previously presented). A pharmaceutical composition comprising a pharmaceutically-acceptable carrier and, as an active ingredient, the protein of claim 3.

7 (Previously presented). A purified interferon-gamma (IFN- γ) production inducing protein, also known as IGIF and IL-18, which has the amino acid sequence of SEQ ID NO:2, where Xaa represents methionine or threonine.

 $8 \, (\text{Previously presented})$. An interferon-gamma (IFN- γ) production inducing agent which consists essentially of, as an effective ingredient, the protein of claim 7.

9(Original). À pharmaceutical composition comprising a pharmaceutically-acceptable carrier and, as an active ingredient, the protein of claim 7.

Claim 10 (Cancelled)

11 (Currently amended). A purified interferon-gamma (IFN- γ) production inducing protein, also known as IGIF and IL-18, which has the following physicochemical properties:

(1) Molecular weight

 $19,000\pm5,000$ daltons on gel filtration and sodium dodecylsulfate polyacrylamide gel electrophoresis (SDS-PAGE);

- (2) Isoelectric point (pI)
 4.8 ± 1.0 on chromatofocusing;
- (3) Biological activity
 Inducing the interferon-γ production by
 immunocompetent cells; and
- Possessing a part or the whole of the amino acid sequence of SEQ ID NO:2, wherein the Xaa in SEQ ID NO:2 is Met or Thr,

and which reacts with a monoclonal antibody specific to an interferon-gamma $(IFN-\gamma)$ production inducing protein having the amino acid sequence of SEQ ID NO:2 or a sequence variant of the protein having one or more of the [[same]] antigenic fragments [[as in]] of the amino acid sequence of SEQ ID NO:2 while not substantially altering the above biological activity (3).

Claims 12 and 13 (Cancelled)

14 (Previously presented). A purified interferon-gamma (IFN- γ) production inducing protein capable of inducing interferon-gamma (IFN- γ) production by immunocompetent cells, wherein said protein is encoded by a DNA sequence which hybridizes to an oligonucleotide probe of SEQ ID NO:5 under the hybridization conditions of 5 x SSPE, 5 x Denhardt's solution,

0.5 w/v% SDS, 100 μ g/ml denatured salmon sperm DNA, and 45°C and after being washed with 6 x SSC.

15(Original). A pharmaceutical composition, comprising a pharmaceutically-acceptable carrier and, as an active ingredient, the protein of claim 14.

16(Previously presented). An isolated interferon-gamma (IFN- γ) production inducing protein, also known as IGIF and IL-18, which substantially retains its interferon-gamma (IFN- γ) production inducing activity even after treatment with SDS-PAGE.

17 (Previously presented). A pharmaceutical composition, comprising a pharmaceutically-acceptable carrier and, as an active ingredient, the protein of claim 16.